

L 2563-66 EWT(d)/EWT(m)/EWP(w) EM

UR/2531/65/000/171/0104/0109

ACCESSION NR: AT5024889

35
34
B+1

AUTHOR: Vovchenko, V. I.

TITLE: Aerosynoptic conditions for helicopter bumping on the flight route Simferopol-Yalta

SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy, no. 171, 1965. Rezul'taty issledovaniya atmosfernoyn turbulentnosti na vertoletnykh trassakh (Results of the investigation of atmospheric turbulence on helicopter routes), 104-109

TOPIC TAGS: meteorologic observation, helicopter, weather map/ MI 4 helicopter

ABSTRACT: Effects of wind, temperature, and altitude on the frequency of helicopter bumping were analyzed on the flight route Simferopol-Yalta. The route was divided into three sections, depending on the topographic characteristics: 1) Simferopol-Bakhchisaray (flight altitude 400-600 m); 2) Bakhchisaray-Foros (flight altitude 900-1000 m); 3) Foros-Yalta (flight altitude 300 m). A group of 400 forms AV-5 submitted by the pilots of MI-4 helicopters disclosed 72 cases of bumping, with the highest frequency (80%) of bumping along the southern shore and 19% in the

Card 1/2

L 2563.66

ACCESSION NR: AT5024889

mountainous section. Direction and velocity of wind, although prerequisites to bumping, were not the sole cause. A more reliable criterion was the distribution of wind velocity, e.g., in the stratum 1500-2000 m the wind velocity was changing in jumps, causing whirlwinds. In 71% of the cases bumping was observed during the temperature change rate of 1-2.5°C in stratum to 1500 m, even in the presence of a very weak wind (8 m/sec and less). The greatest frequency of bumping took place at the altitude of 150-300 m, while at 300-600 m bumping dropped rapidly. Various recommendations are offered for the prediction of bumping, and the necessary conditions for its occurrence are listed. Orig. art. has: 3 figures and 7 tables.

ASSOCIATION: Meteostantsiya Simferopol' (Simferopol Meteorological Station)

SUBMITTED: 00

ENCL: 00

SUB CODE: S, AC

NO REF SOV: 004

OTHER: 000

Card 2/2

VOVCHENKO, V.I.

Foehn in the Carpathian Mountain region. Trudy UkrNICMI no.25:16-23
'61. (MIRA 14:8)

1. Aviameteorologicheskaya stantsiya v Grazhdanskom vozdukhon
flote, L'vov. (Carpathian Mountain region--Foehn)

TOBILEVICH, N. Yu.; SAGAN', I. I.; GARYAZHA, V.T.; TKACHENKO, S. I.;
NOVCHENKO, V. S.; IVASHKEVICH, V. V.

Effect of the rate of the sugar juice motion on the thermal
resistance of the deposits and on the heat transfer during
heating. Izv.vys.ucheb.zav.; pishch.tekh.no. 2:106-10, '64.
(MIRA 17:5)

1. Kiyevskiy tekhnologicheskij institut pishchevoy promyshlen-
nosti, kafedra promyshlennoy teploenergetiki.

VOVCHENKO, V. S.

"Amateur Television Center," State Publ. House for Power Engineering,
Moscow-Leningrad, 1951

VOVCHENKO, V.S.; TROITSKIY, L.V., redakter; FRIDKIN, A.M., tekhnicheskii
redakter.

[Amateur television center] Liubitel'skii televiziennyi tsentr.
Moskva, Gos.energ.izd-vo, 1951. 71 p. (MLRA 9:4)
(Kharkov--Television)

PKHAKADZE, A.L., dotsent (Kiyev, ul. Nikol'sko-Botanicheskaya, d3, kv.);
VOVCHENKO, Ye.M., kand. med. nauk; DEMIDIYUK, P.F.

Metabolic reactions of the organism to surgical trauma. Kli:
khir. no.10:3-13 0 '62. (MIRA 16:7)

1. Otdel klinicheskoy khirurgii (zav.-dotsent A.L. Pkhakadze;
Ukrainskogo nauchno-issledovatel'skogo instituta klinicheskoy
meditsiny imeni akademika N.D. Strazhesko.

(PATHOLOGY, SURGICAL)
(METABOLISM, DISORDERS OF)

VOYCHENKO, Ya. M. (Kiyev, ul. Arsenal'naya, d. 18, kv. 5)

Schwannoma of the lungs. Nov. khir. arkh. no. 2:108-109 Nr-tp '59.
(MIRA 12:7)

1./Otdel klinicheskoy khirurgii (zav. - dotsent A. L. Fkha'ndze)
Ukrainskogo instituta klinicheskoy meditsiny.
(LUNGS--TUMORS)

VOVCHENKO, Ye.M. (Kiyev, 11, ul. Arsenal'naya, d.16, kv. 14)

Effect of transpleural surgery on the gas composition of the blood
and gas exchange. Nov.khir.arkh. no.4:45-51 J1-Ag '57. (MIRA 10:11)

1. Otdel klinicheskoy khirurgii (zav. - dots. A.L.Pkhakadze)
Ukrainskogo nauchno-issledovatel'skogo instituta klinicheskoy
meditsiny.

(PLEURA--SURGERY) (OXYGEN IN THE BODY)
(BLOOD--EXAMINATION)

SHOR, M.I., dotsent; VOVCHENKO, Ye.M.

Dextrocardia following removal of the right lung. Vrach.delo no.8:
865 Ag '59. (MIRA 12:12)

1. Ukrainskiy nauchno-issledovatel'skiy institut klinicheskoy meditsiny
imeni akademika N.D. Strazhesko.
(HEART--DISPLACEMENT) (LUNGS--SURGERY)

VOVCHENKO, Ye.M., kand.med.nauk (Kiyev, ul.Kurskaya, d.79, kv.32)

Some hazards and complications in the use of potentiated endotracheal anesthesia with muscle relaxants. Nov. khir. arkh. no.4:52-56 J1-Ag '60.
(MIRA. 15:2)

1. Otdel. klinicheskoy khirurgii (zav. - dotsent A.L.Pkhakadze)
Ukrainskogo nauchno-issledovatel'skogo instituta klinicheskoy
meditsiny.
(INTRATRACHEAL ANESTHESIA COMPLICATIONS AND SEQUELAE)

PKHAKADZE, A.L., dotsent; VOVCHENKO, Ye.M.

Error in the diagnosis of a hepatobronchial fistula. Nov. khir. arkh.
104-106 Ja-F '60. (MIRA 15:2)

1. Otdel klinicheskoy khirurgii (zav. - dotsent A.L.Pkhakadze)
Ukrainskogo instituta klinicheskoy meditsiny.
(FISTULA) (LIVER__ULCERS) (BRONCHI__ULCERS)

VOVCHENKO, Ye. M.: Master Med Sci (diss) -- "The effect of transpleural operative intervention on gas exchange". Kiev, 1959. 15 pp (Kiev Order of Labor Red Banner Med Inst im Acad A. A. Bogomolets), 200 copies (KL, No 17, 1959, 110)

PKHAKADZE, A.L., dots.; VOVCHENKO, Ye.M., (Kiyev, 11, ul. Arsenal'naya, d.16, kv.14)

Clinical aspects of primary sarcoma of the lung. Nov. khir. arkh. 5:
66-69-S-0 '58. (MIPA 12:1)

1. Otdel klinicheskoy khirurgii (zav. - dots. A.L. Pkhakadze) Ukrain-
skogo nauchno-issledovatel'skogo instituta klinicheskoy meditsiny.
(LUNGS--TUMORS)

VOVCHENKO, Ye.M., kand.med.nauk (Kiyev, 87, per.Nishchinskogo,d.3,kv.32);
DEMIDIYUK, P.V.

Embolectomy during mitral commissurotomy. Klin.khir. no.8:63-64
Jl '62. (MIRA 15:11)

1. Otdel klinicheskoy khirurgii (zav. - dotsent A.L.Pkhakadze)
Ukrainskogo instituta klinicheskoy meditsiny.
(MITRAL VALVE--SURGERY) (EMBOLISM)

VOVOCHENKO, Ye.M., kand.med.nauk (Kiyev, per. Kositskogo, d.3, kv.32);
KUZ'MINSKIY, N.P.

Hemorrhage from the aorta caused by a foreign body in the esophagus. Klin.khir. no.11:72-74 N '62. (MIRA 16:2)

1. Otdel klinicheskoy khirurgii (zav. - dotsent A.L. Pkhakadze)
Ukrainskogo nauchno-issledovatel'skogo instituta klinicheskoy
meditsiny.

(AORTA—WOUNDS AND INJURIES) (HEMORRHAGE)
(ESOPHAGUS—FOREIGN BODIES)

VOVCHIK-BLAKITNAYA, M.V. [Vovchyk-Blakytna, M.V.]

Formation of the esthetic attitude of preschool children toward a
picture. Nauk. zap. Nauk.-dosl. inst. psykhol. 11:231-234 '59.
(MIRA 13:11)

1. Institut psikhologii, Kiev.
(Aesthetics—Study and teaching)

ORLENKO, D.; VOVCHOK, L.

Across our land. Znan. ta pratsia no.3:8 Mr '62. (MIRA 16:7)

(Technological innovations)

VOVES, M.

How we have succeeded in our brigade. p. 120.
MECHANISACE ZEMEDELSTVI. Vol. 5, No. 6, Mar. 1955

SO: Monthly East European Accession, (EEAL), LC, Vol. 4, No. 9, Sept. 1955 Uncl.

USSR / General Problems of Pathology. Transplantation U-2
of Tissues and Tissue Therapy.

Abs Jour: Ref Zhur-Biol., No 15, 1958, 70726.

Author : ~~Vovk A. A.~~, Rodionov V. V.
Inst : Dnepropetrovsk Medical Institute.
Title : The Restitution of Some Physiological Functions in
a Filatov Graft During Plastic Surgery.

Orig Pub: Sb. nauchn. tr. Dnepropetr. med. in-ta. 1957, 3,
32-34.

Abstract: No Abstract.

Card 1/1

4

VOVCHINSKAYA, Z. M.

Mar/ Apr 1948

USSR/Medicine- Rodents
Medicine- Infectious Diseases

" The Role of Mammalian Carnivora in the Spread of Rodent Aphaniptera," E. P. Bron,
Z.M. Vovchinskaya, L. V. Fedorova, Irkutsk State Antiplague Inst for Siberia
and Far East, 7½ pp

"Zool Zhur" Vol XXVII, No 2

Carnivorous mammalia are treated as a factor in limiting rodents, carriers of
infectious diseases. Theory developed as result of ecological studies of
mamalia. Presents data collected over a period of years in Trans-Baikal region
in studies to determine the positive as well as negative role of such carrivora.

PA 63TY

VOVCHUK, D.

Antiworld... where is it? Znan. ta pratsia no.1:11 Ja '62.
(MIRA 15:1)

(Cosmic physics)

VOVCHUK, V.A. (Stanislav, ul.Dnestrovskaya, d.20, kv.10); FILYUK, F.A.

Primary cranioplasty in a contaminated wound of the brain. Nov. khir.
arkh. no.4:112-113 J1-Ag '60. (MIRA 1:5:2)

1. Kafedra gosptal'noy khirurgii (zav. - prof. S.A.Verkhratskiy)
Stanislavskogo meditsinskogo instituta i khirurgicheskoye otdeleniye
Dilyatinskoy uchastkovoy bol'nitsy Yaremchanskogo rayona.
(SKULL SURGERY) (BRAIN WOUNDS AND INJURIES)

VOVCHUK, V.A.

Torsion of a cyst of the great omentum in a child. Khirurgii
(MIRA 11:4)
Supplement:4-5 '57.

1. Iz khirurgicheskogo otdeleniya (zav. V.A.Vovchik) Stanislavskoy
oblastnoy klinicheskoy bol'nitsy (glavnyy vrach A.S.D'yachenko) i
kafedry gosital'noy khirurgii (zav. - prof. S.A.Verkhvatskiy)
Stanislavskogo meditsinskogo instituta.
(CYSTS) (OMENTUM--TUMORS)

85357

S/120/60/000/005/030/051
E032/E314

21.5200
AUTHORS:

Vovenko, A.S., Lyubimov, A.L., Savin, I.A.,
Stabinskiy, V.S. and Stoychev, T.T.

TITLE: A Cherenkov Counter Using Total Internal Reflection

PERIODICAL: Pribery i tekhnika eksperimenta, 1960, No. 5,
pp. 119 - 121

TEXT: The counter is shown schematically in Fig. 1. The Cherenkov radiation produced by a charged particle passing through the radiator strikes the front end at various angles, depending on the velocity of the particle. For particles with a velocity $\beta_0 = (n_1^2 - n_2^2)^{-1/2}$ the angle of incidence is equal to the angle of total internal reflection. The Cherenkov radiation due to particles with velocities greater than β_0 experiences total internal reflection and is absorbed by the rear wall of the container which is covered by black velvet. In the case of particles having a velocity smaller than β_0 , the radiation leaves the radiator and strikes two photomultipliers placed below the particle beam.

Card 1/2

85357

S/120/60/000/005/030/051

E032/E314

A Cherenkov Counter Using Total Internal Reflection

Each photomultiplier has a separate output and a special mirror is used to improve the light collection. The characteristics of the counter were investigated in the π^+ beam of the synchrocyclotron of the Laboratoriya yadernykh problem OIYaI (Laboratory for Nuclear Problems of the Joint Institute for Nuclear Studies). In the case of 2.8 GeV/C

π^+ mesons the efficiency of the counter was found to be between 0.01 and 0.03, depending on the type of photomultiplier employed. A similar device has been described by Agnew et al in Ref. 2. However, the efficiency in the latter work was 0.1. Acknowledgments are expressed to V.I. Veksler for valuable advice. There are 2 figures and 3 references: 1 Soviet and 2 English.

ASSOCIATION: Ob'yedinennyy institut yadernykh issledovaniy (Joint Institute for Nuclear Studies)

SUBMITTED: September 2, 1959

Card 2/2

S/120/62/000/002/009/047
E039/E520

AUTHORS: Vovenko, A.S., Kulakov, B.A., Likhachev, M.F.,
Lyubimov, A.L., Matulenko, Yu.A., Savin, I.A. and
Stavinskiy, V.S.

TITLE: A differential gas Cherenkov counter

PERIODICAL: Pribory i tekhnika eksperimenta, no.2, 1962, 49-52

TEXT: A detailed description is given of a differential :
gas Cherenkov counter developed in the high energy laboratory of
OIIYaI in 1959 and used in the beam of the synchrophasotron for
the detection of K-mesons in pulses of 3-5 GeV. Cherenkov
radiation from particles moving through the gas in the counter is
focused by a spherical aluminium coated mirror onto a circular
diaphragm placed in front of a perspex plug through which the
light passes and is detected with a $\Phi\gamma$ -24 (FEU-24) photo-
multiplier. The plane of the photocathode is perpendicular to
the direction of the particle beam, which has a maximum diameter
of 10 cm, and the axis of the photomultiplier is displaced about
12 cm from it. A more detailed discussion of the optical
aberrations is given. The radiation tube is about 1.5 m long and
is lined with black velvet to reduce the background count; this
Card 1/2

A differential gas Cherenkov counter S/120/62/000/002/009/047
E039/E520

reduced the effective working length to 0.7 m. A photomultiplier with high quantum efficiency and large amplification is necessary and the electronic circuitry is sensitive to a pulse corresponding to one photoelectron from the cathode of the photomultiplier. The variation of efficiency with air pressure was determined and it is shown that a background count appears at pressures greater than ~ 25 atm. This background can be reduced further, to ~ 1 to 2%, by using gases such as ethane and ethylene. Peak efficiency is at about 10 atm for air and K-mesons and π -mesons can be separated in pulses up to 6 GeV/s. There are 4 figures.

ASSOCIATION: Ob'yedinennyy institut yadernykh issledovaniy
(Joint Institute for Nuclear Research)

SUBMITTED: August 17, 1961

Card 2/2

L 11946-66 EWT(m)/T/EWA(m)-2

ACC NR: AP6000736

SOURCE CODE: UR/0386/65/002.009/0409/0413

44 55 44 55 44 55 44 55 44 55
 AUTHOR: Vovenko, A. S.; Gus'kov, P. H.; Likhachev, M. P.; Lyubimov, A. L.; Matulenko, Yu. A.; Savin, I. A.; Stavinskiy, V. S.

44 55 44 55
 ORG: Joint Institute of Nuclear Research (Ob'yedinenyy institut yadernykh issledovaniy)

44 55 44 55
 TITLE: Elastic 180° scattering of π^+ mesons by protons at high energies

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. B
 Prilozheniye, v. 2, no. 9, 1965, 409-413

TOPIC TAGS: elastic scattering, pion scattering, proton scattering, scattering cross section

ABSTRACT: This is a continuation of earlier measurements of the differential cross sections for elastic π^+p scattering in a small solid angle about 180° at π^+ -meson l.s. momenta 3.15, 4.10, and 4.85 GeV/c, carried out at the High Energy Laboratory of the Joint Institute for Nuclear Research, the results of which for 3.1 GeV/c have already been published (Phys. Lett. v. 17, 68, 1965). In this paper the authors present the results for 4.10 and 4.85 GeV/c and compare the data obtained at all three energies. The measurements at the different energies were made with the same setup, which was already described earlier. The ratio of the number of elastic π^+ -ion backward-scattering events registered by the apparatus to the total number of obtained photographs decreased with increasing energy (1:4.4, 1:11, and 1:40 at 3.15, 4.10, and 4.85 GeV/c, respectively). This was due not only to the decrease in the measured

Card 1/2

L 11946-66

ACC NR: AP6000736

18.
cross section, but to a deterioration of the background conditions as a result of the smaller spatial separation of the recoil protons from the beam particles. It was therefore required to apply more rigorous criteria for the selection of the backward elastic-scattering events than earlier. The effective c.m.s. solid angle of the set-up, calculated by the Monte Carlo method with account of the Coulomb scattering of the particles, was 3.87×10^{-3} sr for 4.10 GeV/c and 3.04×10^{-3} sr for 4.85 GeV/c. The effective cross sections, corrected for the nuclear interaction of the primary and back-scattered π^+ mesons and the recoil proton in the hydrogen target and in the counters, for the muon contamination of the beam, for decay of the scattered pion, for the efficiency of the scintillation counters and the electronic circuitry, and for the efficiency of the spark chambers, were (99 ± 12) , (74 ± 11) , and (37 ± 12) $\mu\text{b/sr}$ for 3.15, 4.10, and 4.85 GeV/c, respectively. The previously deduced existence of a narrow peak of appreciable magnitude in the differential cross section of elastic π^+p backward scattering at 3.15 GeV/c is confirmed. Authors thank V. Birulev, T. Dobrovol'skiy, A. Zagorodnyi, I. Kakurin, V. Perevozchikov, and N. Chernyshov for help with the work, V. Kochkin for compiling the program and performing the computations, the proton synchrotron crew for stable operation of the accelerator, and the operating staff of the cryogenic division for supplying the liquid hydrogen. Orig. art. has: 1 figure, 1 formula, and 1 table.

SUB CODE: 20/

SUBM DATE: 15Sep65/

OTH REF: 002

HW
Card 2/2

L 21388-66 FCC/T/EAP(n)/EWA(h) IJP(c)
ACU NRI AP5017724 SOURCE CODE: CH/0026/65/021/004/0748/0764

AUTHOR: Chang, Nai-sen (4545/1698/2773); Hsu, Yung-ch'ang (1776/3057/2490); Ho, Yuan-fu (0149/6678/1982); Mel'nikov, G. V.; Vovenko, A. S.

ORG: none

TITLE: A multicounter system with a large scintillation tracking device

SOURCE: Wu li hsueh pao (Acta physica sinica), v. 21, no. 4, 1965, 748-764

TOPIC TAGS: physics, particle counter, proton interaction, meson interaction, scintillation detector

ABSTRACT: The authors designed and built a multicounter system using a large scintillation tracking device in order to study the elastic and nonelastic interactions between K^+ and π^+ mesons and protons at 2.5 to 5 Bev/c. K^+ and π^+ mesons were selected by a meson counter telescope consisting of 2 scintillation counters, a Cerenkov counter, and 2 gas Cerenkov speed selectors. K^+ and π^+ mesons interacted with protons in liquid hydrogen to produce secondary radiation. Phosphors used for scintillation in the counters were produced by the Soviet Joint nuclear research institute. The tracking device is capable of determining the coordinates ($\theta \pm \Delta\theta$, $\phi \pm \Delta\phi$) of a particle in various positions. Pulses separated from the counters in the tracking device were analyzed by an

Card 1/3

L 21388-66

ACC NR: AP5017724

electronic system having a 20-channel analyzer. The authors introduced an amplitude limiter made with sharp cut-off pentodes (6Zh1P, 6VIP, and 6Zh9P) to the 20-channel analyzer to improve the coincidence circuit selectivity. The authors also designed a dual slow coincidence circuit for the multiscaler system. The optimum discriminating time of the dual slow coincidence circuit reached $25 \sim 30$ nsec and the recording efficiency reached $\approx 98\%$ after adjustment. Amplification coefficients of the amplifiers in the circuits were found to be at least above 20. Dead time for the 20-channel analyzer circuits were found to be above 10 nsec. The multiscaler system was adjusted and inspected on a phase-stable synchrotron by the end of 1961 before it was used for measuring interactions between π^+ mesons and protons. The system can also be used for determining the cross section of π^+ mesons in the interactions. The system was employed for measuring differential cross sections of elastic scattering of π^+ mesons and protons at 3.2 BeV/c later in 1962. The following improvements were made on the system after 1962: 1) concentration of light at the counters was accomplished by total reflection instead of diffuse reflection; the distance between the system and the accelerator was adjusted to 4 meters; 2) two Moody discriminators were used in parallel instead of one for a higher recording efficiency (100%) of the 20-channel dual coincidence circuit; and 3) an inspecting system consisting of a discharge-type pulse light source was introduced to the system. The authors extend their thanks to the Russian members A. P.

Card 2/3

APR 1966
ACC NR: AP5017724

9
Lubimov, V. S. Stavinskii, M. F. Likhachev; engineers A. S. Gavrillov, B. A. Zelenov, A. B. Komonenko; and E. N. Matveev, D. V. Ural'skii, and I. N. Kakurin of the Soviet joint nuclear research institute for their assistance. Thanks are also extended by the authors to the Phase-stable synchrotron working team of the Institute and to all the Chinese working at the High energy laboratory of the Institute for their efforts and participation in the experiments. "The experiments were completed in 1960-1961 at the Soviet joint nuclear research institute. This article was read at the 1963 physics symposium." Orig. art. has: 18 figures.

SUB CODE: 20/18/ SUBM DATE: 03Jan64/ ORIG REF: 005/ OTH REF: 003

Card 3/3

VOVENKO, A.S.; GUS'KOV, B.N.; LIKHACHEV, M.F.; LYUBIMOV, A.L.; MATULENKO,
Yu.A.; SAVIN, I.A.; STAVINSKIY, V.S.

Elastic scattering of γ^+ -mesons on protons at an angle of 180°
at high energies. Pis'. v.red. Zhur. eksper. i teoret. fiz. 2
no.9:409-413 N '65. (MIRA 18:12)

1. Ob'yedinennyy institut yadernykh issledovaniy. Submitted
September 15, 1965.

VOVENKO, A.S.; KULAKOV, B.A.; LIKHACHEV, M.F.; MATULENKO, Yu.A.; SAVIN, I.A.;
STAVINSKIY, V.S.

Cherenkov gas counters. Usp. fiz. nauk 81 no.3:453-506 II '63.
(MIRA 16:12)

VOVENKO, A.S.; KULAKOV, B.A.; LIKHACHEV, M.F.; LYUBIMOV, A.L.; MATULENKO,
Yu.A.; SAVIN, I.A.; STAVINSKIY, V.S.

Differential gas-discharge Cherenkov counter. Prib. i tekhn.
eksp. 7 no.2:49-52 Mr-Ap '62. (MIRA 15:5)

1. Ob"yedinennyy institut yadernykh issledovaniy.
(Nuclear counters)

VOVENKO, A. S., KULAKOV, B. A., LIKHACHEV, M. F., MATULENKO, Yu. A., LYUBIMOV, L. L.,
SAVIN, I. A., SMIRNOV, E. V., and STAVINSKIY, V. S.

"Elastic Scattering of η -Mesons on Hydrogen on the 180° Angle"

Report presented at the Intl. Conference on High Energy Physics, Geneva,
4-11 July 1962

Joint Institute for Nuclear Research
Laboratory of High Energies, Dubna, 1962

VOVENKO, A. S., KULAKOV, B. A. LIKHACHEV, M. F., LYUBIMOV, L. L., MATULENKO, Yu. A.,
SAVIN, I. A. SMIRNOV, Ye. V., STAVINSKIY, V. S. IJIN-CHANG, Sui, IJAN-IJ, Khe

"Inelastic Interactions of K^+ - Mesons with Hydrogen"

report presented at the Intl. Conference on High Energy Physics, Geneva,
4-11 July 1962

Joint Institute for Nuclear Research
Laboratory of High Energies, Dubna, 1962

BELYAKOV, A.N.; VOVENKO, A.S.; KIRILLOV, A.D.; KULAKOV, B.A.; LYUBIMOV,
A.L.; MATULENKO, YU.A.; SAVIN, I.A.

Gaseous threshold Cherenkov counters operating with accelerators.
Prib. i tekhn. eksp. 6 no.1:32-35 Ja-F '61. (MIRA 14:9)

1. Ob"yedinennyy institut yadernykh issledovaniy.
(Nuclear counters)

35559
S/056/62/042/003/011/049
B104/B102

24.600

AUTHORS: Vovenko, A. S., Golovanov, L. B., Kulakov, B. A.,
Lyubimov, A. L., Mamulenko, Yu. A., Savin, I. A., Smirnov, Ye. V.

TITLE: Total π^- -p interaction cross sections at high energies

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42,
no. 3, 1962, 715 - 720

TEXT: $\sigma_t(\pi^-, p)$ was determined for proton momenta of 3.4, 3.9, 4.9, 7.0, and 9.2 BeV/c. The experimental arrangement is shown in Fig. 1. The total interaction cross section decreased between 3.5 and 7 BeV/c. Measurements at higher energies have not clearly shown whether the decrease of $\sigma_t(\pi^-, p)$ is only characteristic of the range investigated, or the behavior is an asymptotic one (Table). A comparison with other results has shown that $\sigma_t(\pi^+, p)$ and $\sigma_t(\pi^-, p)$ are equal in the range of 4-5 BeV within the accuracy attained. Assuming that $\sigma_{\pi^+}/\sigma_{\pi^-} = (\text{Im}A_{\pi^+}^0/\text{Im}A_{\pi^-}^0)^2$, the charge exchange is estimated with the aid of relation

Card 1/3

Total π^- -p interaction cross...

S/056/62/042/003/011/049
B104/B102

$$4\pi\lambda \operatorname{Im} A_n^0 = (1/\sqrt{2}) [\sigma_t(\pi^-, p) - \sigma_t(\pi^+, p)]$$

$\sigma_{\pi} = 0.012$ and 0.003 , respectively. A_{π}^0 and A_y^0 are the amplitudes of the charge exchange processes ($\pi^0 p \rightarrow \pi^+ n$, $\pi^- p \rightarrow \pi^0 n$) and of the elastic scattering under the angle 0° , σ_{π} and σ_y are the total charge exchange cross section and the elastic scattering cross section. The two values of σ_{π} were obtained at $\sigma_y \approx 5.5$ millibarn with $\sigma_t(\pi^-, p) - \sigma_t(\pi^+, p) = 1$ millibarn, and $\sigma_t(\pi^-, p) - \sigma_t(\pi^+, p) = 2$ millibarn, respectively. The data of other authors (G. von Dardel et al., Phys. Rev. Lett., 7, 127, 1961) are in good agreement with the results obtained here. I. Ya. Pomeranchuk and L. B. Okun' are mentioned. There are 2 figures, 1 table, and 17 references: 11 Soviet and 6 non-Soviet. The four most recent references to English-language publications read as follows: V. N. Grabov, Nucl. Phys., 22, 249, 1961; G. von Dardel et al., Phys. Rev. Lett., 5, 333, 1960; A. S. Vovenko et al., Proc. of the 1960 Ann. Intern. Conf. on High Energy Physics at Rochester, Univ. of Rochester, 1960, p. 443; V. S. Barashenkov et al., Nucl. Phys., 14, 522, 1960.

Card 2/3

Total π^- -p interaction cross...

H/056/62/042/003/011/049
B104/B102

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint
Institute of Nuclear Research)

SUBMITTED: October 10, 1961

Fig. 1. Experimental
arrangement.

Legend: (T) target in the
proton-synchrotron; (M-7
(M1-7)) four-pole lenses;
(C-57 (SP-57)) magnet; (S_1 ,
..., S_3 , S_A , ..., S_C)
scintillation counters; (1)
concrete; (2) lead.

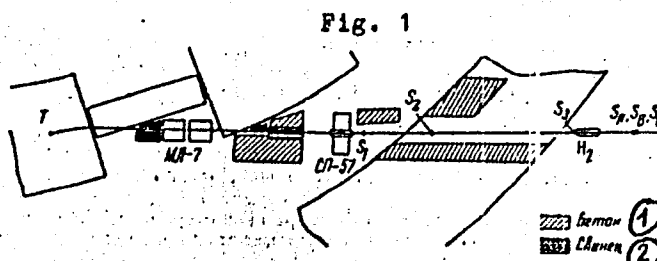


Table. Measurement results.

Legend: (1) momenta of π^- mesons, Bev/c;
(2) $\sigma_t(\pi^-, p)$, millibarn; (3) muon admixture
in the beam, %.

Table		
(1)	(2)	(3)
3.4	31.4 ± 0.7	12.4 ± 0.2
3.9	30.0 ± 0.5	12.8 ± 0.2
4.0	29.6 ± 0.6	13.3 ± 0.2
7.0	27.8 ± 0.8	6.5 ± 0.4
9.2	25 ± 4	—

Card 3/3

VOVENKO, A.S.; GRACHEV, A.G.; LIKHACHEV, M.F.; MATULENKO, Yu.A.; SAVIN, I.S.;
SIU YUN-CHAN [Hsu Yung-sh'ang]; KHE YUAN'-FU [Ho Yuan-fu]

Elastic scattering of positive 3.2 Gev./sec. π^+ -mesons by protons.
IAd. fiz. 1 no.4:681-686 Ap '65. (MIRA 18:5)

1. Ob'yedinenyy institut yadernykh issledovaniy.

VOVENKO, A.S.; LYUBIMOV, A.L.; SAVIN, I.A.; STAVINSKIY, V.S.; STOLCHEV, T.T.

Cherenkov counter utilizing total internal reflection. Prilb.1 tekhn.
eksp. no.5:119-121 S-O '60. (MIRA 13:11)

1. Ob'yedinennyy institut yadernykh issledovaniy.
(Cherenkov radiation) (Nuclear counters)

VOVENKO, A.S.; GOLOVANOV, L.B.; KULAKOV, B.A.; LYUBIMOV, A.L.; MAIULEN-
KO, Yu.A.; SAVIN, I.A.; SMIRNOV, Ye.V.

[Total cross sections of π^- -meson interaction with protons at
high energies] Polnye sечeniia vzaimodeistviia π^- -mezonov s
protonami pri vysokikh energiakh. Dubna, Ob"edinennyi institut
iadernykh issledovani, 1961. 11 p. (MIRA 4:11)
(Mesons) (Protons)

VIRYASOV, N.M.; VOVENKO, A.S.; VOROB'YEV, G.G.; KIRILLOV, A.D.; KIM KHI IN;
KULAKOV, B.A.; LYUBIMOV, A.L.; MATULENKO, Yu.A.; SAVIN, I.A.; SMIRNOV,
Ye.V.; STRUNOV, L.N.; CHUVILO, I.V.

Channel for 2.8 Bev/c momentum antiprotons. Zhur.eksp.i teor.fiz.
38 no.2:445-448 P '60. (MIRA 14:5)

1. O'yedinennyy institut yadernykh issledovaniy.
(Particle accelerators) (Protons)

20677

S/120/61/000/001/001/062

E032/E314

21.5300

AUTHORS: Belyakov, A.N., Vovenko, A.S., Kirillov, A.D.,
Kulakov, B.A., Lyubimov, A.L., Matulenko, Yu.A. and
Savin, I.A.

TITLE: Gas-filled Threshold Cherenkov Counters for
Accelerator Experiments

PERIODICAL: Pribery i tekhnika eksperimenta, 1961, No. 1,
pp. 32 - 35

TEXT: The velocity analysis of fast particles ($\beta \sim 1$) by
Cherenkov counters, using the dependence of the threshold or
angle of Cherenkov emission on the velocity, is possible if
the refractive index of the medium is close to unity. This
condition is satisfied only by gaseous media. The present
paper describes two gas-filled Cherenkov counters. One of
them (supplied by Yu.A. Troyan, L.S. Okhrimenko and
S.V. Mukhin) was an experimental counter which was used in
studies designed to establish whether it is possible to
separate out rare particles against a background of other
particles. The second counter was designed for work in the

Card 1/7

20677

Gas-filled Threshold

S/120/61/000/001/008/052
E032/E314

π^- and K-meson beams of the synchrophasotron of the Joint Institute for Nuclear Research. The first of the above counters is shown in Fig. 1, in which 1 - is the steel body, 2 - is a glass tube 30 mm in diameter and covered with a film of aluminium on the inner surface, 3 - is a hollow light pipe, 4 - is a perspex window and 5 - is an FEU-33 (FEU-33) photomultiplier. Fig. 2 shows the second of the above counters, in which 1 is the steel body, 2 is a polished dural tube, 80 mm in diameter and coated with an organic film and then an aluminium film on the inner surface, 4 is a quartz window and 5 is an FEU-33 photomultiplier. The first counter (C_1) was used in the π^+ meson beam of the synchrocyclotron of the Joint Institute of Nuclear Research. The energy was 300 MeV. The second counter (C_2) was used in the beam of positive particles of the synchrophasotron of the above institute (largely π^+ -mesons and protons) the momentum being ~ 3 GeV/c. In both cases, the Cherenkov counter was

Card 2/7

20677

S/120/61/000/001/008/062
E032/E314

Gas-filled Threshold

connected in coincidence with a scintillation monitor telescope whose counters had a diameter slightly smaller than the diameter of the Cherenkov counter. The Cherenkov counter was arranged as shown in Fig. 3. C in this figure represents the scintillation counters, YP-1a represent amplifiers, the rectangular block in the centre of the figure indicates the position of the Cherenkov counter and the three rectangular blocks on the righthand side of the figure are coincidence circuits with resolving times as indicated. In these experiments the ratio $m = N_2/N_3$ was measured. Fig. 4 shows the ratio m as a function of pressure in atmospheres for the C_1 counter (filled with air). Curve a refers to a kinetic energy $E_k^{\pi^+} = 297$ MeV and Curve b to $E_k^{\pi^+} = 280$ MeV. $p_{\mu}^a, p_{\mu}^b, p_{\pi}^a, p_{\pi}^b$ indicate the threshold pressures of the a and b curves for μ and π -mesons, respectively. Curve b was taken with a telescope containing a Cherenkov counter which was more sensitive to μ -mesons than π -mesons.

Card 3/7

20677

S/120/61/000/001/008/062
E032/E314

Gas-filled Threshold

Fig. 5 shows the ratio m as a function of pressure in atm. for the C_1 counter filled with ethylene

($E_k^+ = 392$ MeV). It is clear from Figs. 4 and 5 that it is possible to separate out μ -mesons in a beam of π -mesons. Fig. 6 shows the dependence of m on the pressure for the C_2 counter filled with air. This curve was obtained for a beam containing 40% π -mesons and 60% protons. p_μ and p_π

show the threshold pressures for μ - and π -mesons. It is concluded that particle separation is possible with these counters. There are 6 figures and 1 non-Soviet reference.

ASSOCIATION: Ob'yedinennyy institut yadernykh issledovaniy
(Joint Institute of Nuclear Research)

SUBMITTED: February 13, 1960

Card 4/7

Gas-filled Threshold

Fig. 1:

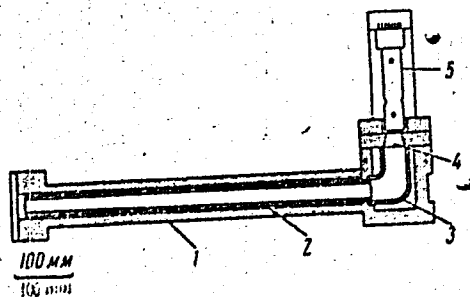
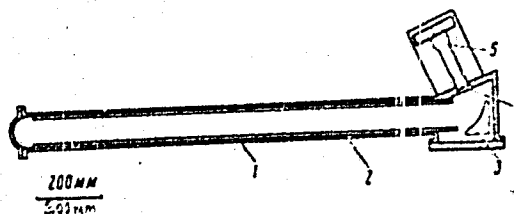
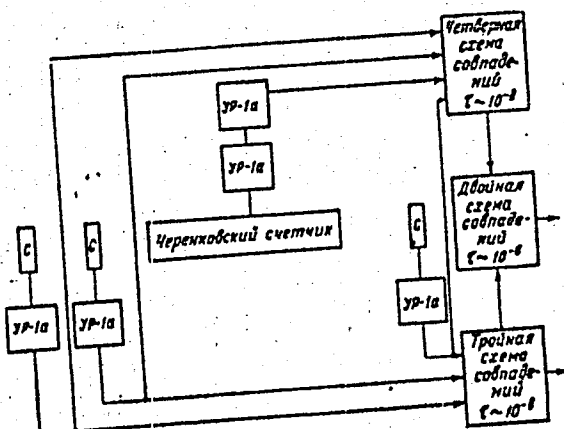


Fig. 2:



Gas-filled Threshold

Fig. 3:



Card 6/7

20677
S/120/61/000/001/008/062
E032/E314

Fig. 4:

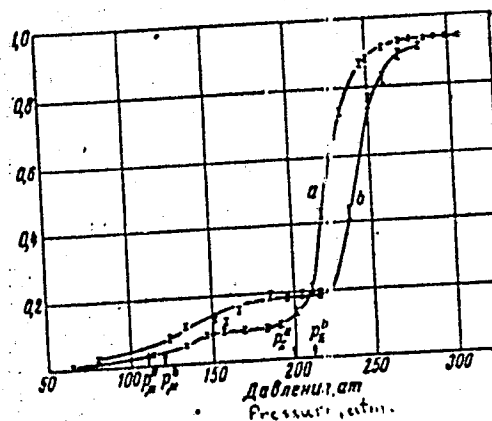
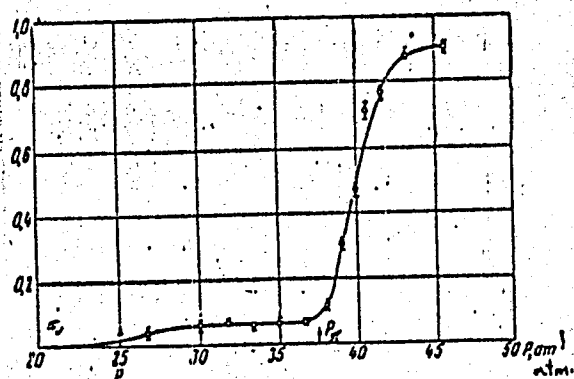


Fig. 2.3.4 - attached to Fig. 2.3.3

Gas-filled Threshold

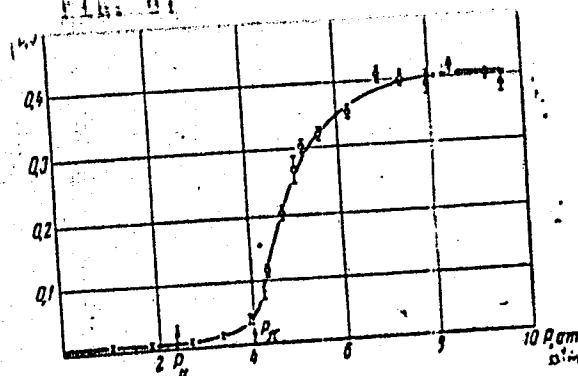
FIG. 51



Card 7/7

20677
S/120/61/000/001/008/062
E032/E314

FIG. 51



VOVENKO, A.S.

82019
S/056/60/038/02/20/061
B006/B011

24.6810

AUTHORS: Viryasov, N. M., Vovenko, A. S., Vorob'yev, G. G.,
Kirillov, A. D., Kim Khi In, Kulakov, B. A., Lyubimov, A. L.,
Matulenko, Yu. A., Savin, I. A., Smirnov, Ye. V., Strunov,
L. N., Chuvilo, I. V.

TITLE: Channel for Antiprotons¹⁹ With a Momentum of 2.8 Bev/c

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,
Vol. 30, No. 2, pp. 440-440

The authors of the present paper describe a channel built for the investigation of the interaction of antiprotons in a solid target. Antiprotons were produced by 9-Bev protons in a target. Fig. 1 is a schematic representation of the channel described in the following. The antiprotons were identified from their velocity ($\beta = 0.95$) by means of three Cherenkov counters, each of which was provided with two photomultipliers of the type $\phi 3Y-33$ (FEU-33) whose efficiencies are specified in Table 1. The efficiencies attained with different coincidence combinations are given in Tables 2 and 3. Fig. 2 shows a block diagram of the electronic

Card 1/3

Channel for Antiprotons With a Momentum of
2.8 BeV/c

82019
8/056/60/038/02/20/061
B006/B011

system, and respective data are supplied in Table 4. The efficiency of the scheme described with respect to antiprotons is found to be 60-40%. Some tests are briefly described next. By the system discussed here, the authors determined the ratio of the number of $\bar{p}$ with momenta of (2.8 ± 0.15) BeV/c to the number of all remaining particles (which were chiefly π^- -mesons) from the beryllium target (36 g/cm^2) under the angles 0 and 7° , and from a copper target ($\sim 180 \text{ g/cm}^2$) under 7° with respect to the primary proton beam ($8.1 - 8.9$ BeV). At an intensity of 10^9 p of the inner beam, an average of 1 $\bar{p}$ was recorded within four minutes. Results:

Angle	target	proton beam intensity	particle number in the channel	relative number of antiprotons in the beam
0°	Be	10^9	1000	$(1.03 \pm 0.13) \cdot 10^{-4}$
7°	Be	10^9	~ 700	$(1.37 \pm 0.18) \cdot 10^{-4}$
7°	Cu	10^9	~ 700	$(2.42 \pm 0.53) \cdot 10^{-4}$

The number of particles recorded in the channel agrees with data concern-

Card 2/3

VOVENKO, A.S.; GOLOVANOV, L.B.; KULAKOV, B.A.; LYUBIMOV, A.L.; MATULENKO,
Yu.A.; SAVIN, I.A.; SMIRNOV, Ye.V.

Total cross sections of π^- -meson and proton interaction at
high energies. Zhur.eksp.i teor.fiz. 42 no.3:715-720 Mr '62.
(MIRA 15:4)

1. Ob'yedinenyy institut yadernykh issledovaniy.
(Nuclear reactions) (Mesons) (Protons)

VOVENKO, A.S.; KULAKOV, B.A.; LIKHACHEV, M.F.; LYUBIMOV, A.L.; MATYLENKO,
Yu.A.; SAVIN, I.A.; STAVINSKIY, V.S.

[Differential Cherenkov gas counters] Differentsial'nyi gazovyi
cherenkovskii schetchik. Dubna, Ob"edinennyi institut iadernykh
issledovaniy, 1961. 11 p. (MIRA 14:10)
(Nuclear counters)

MEDONIS, Ar.; VOVERAITIENE, N., red.

Trakai. 3. papildytas leidimas. Vilnius, Mintis, 1965.
58 p. [In Lithuanian] (MIRA 18:10)

VOVES, Bohumir, inz.

Verification of correct procedure in prestressing. Inz stavby 10
no.8:288-289 Ag '62.

1. Vyzkumny ustav stavebni vyroby, Praha.

VOVES, Bohumir, inz.

Design of new types of ceiling panels from wire reinforced concrete.
Stav vyzkum no.3:1-4 Je '63.

1. Vyzkumny ustav stavní výroby, Praha.

VOVES, Bohumir, inz.

Tests of mortar injection pumps. Inz stavby 11 no.4:
Supplement: Mechanizace no.4:61-64 '63.

1. Vyzkumny ustav stavebni vyroby, Praha.

VOVES, Bohumir, inz.

Defects and deficiencies in building prestressed concrete constructions. Inz stavby 12 no.9:390-396 S '64.

1. Research-Institute of Building Construction, Prague.

VOVES, B., inz.

"Prestressed concrete; foundations, theory, calculation" by
A. Mehmel. Reviewed by B. Voves. Stavivo 41 no.10:391-392
0 '63.

VOVES B. Sterilisace a desinfekce praktickeho lekare, Sterilization and disinfection in general practice, Prakticky lekar, Prague 1949, 29/21 (432-433)

So: Medical Microbiology and Hygiene, Section IV, Vol 3, No 1-6

VOVES, B., inz. (Prague)

Effect of the acceleration of thermal hardening of concrete on
its cohesion with prestressed reinforcement. Stavivo 43 no. 2:
48-52 '65.

1. Submitted November 1964.

VOVES, Bohumir, inz.

Tests of mixers for injection mortar. Poz stavby 11 no. 12:
651-652, 657-659 '63.

1. Vyzkumny ustav pozemnich staveb, Praha.

VERT, Zh.L.; VOYNODINA, A.A.; TVERDOVSKIY, I.I.

Measurement of limiting currents on some cation-exchanging
membranes in the hydrogen form. Trudy GIKH no. 49:201-209
(MIRA 17:11)
162.

KABACHNIK, M.I.; VOYEVODSKIY, V.V.; MASTRYUKOVA, T.A.; SOLODNIKOV, S.P.;
MELENT'YEVA, T.A.

Conjugation in the systems involving a tetrahedral atom. Electron
paramagnetic resonance spectra of some organophosphorus compounds.
Zhur. ob. khim. 34, no.10:3234-3240 O '64.

(MIR: 17:11)

1. Institut elementoorganicheskikh soedineniy AN SSSR i Institut
khimicheskoy fiziki AN SSSR.

VOVEYKOV, G.S.

~~VOVEYKOV, G.S.~~
Natural change of females in bumblebee families (Hymenoptera, Bombidae).
Ent.oboz. 33:174-181 '53. (MLR. 7:5)
(Bumblebees)

VOVEYKOV, G.S.; VYZHIKOVSKAYA, A.V.; RUDOL'F, V.P.; SHTEYNBERG, D.M.

Experiment in producing an artificial population of bumblebees
to increase the production of red clover seed. Trudy Zool. Inst.
24:247-270 '58. (MIRA 11:10)
(Bumblebees) (Clover) (Seed industry)

VOYAKOV, G.S.; LITKEVICH, S.V., redaktor; PAVLOVSKIY, Ye.N., akademik,
otvetstvennyy redaktor; SHTEYNBERG, D.M., doktor biologicheskikh
nauk, redaktor; PEVZNER, R.S., tekhnicheskiy redaktor.

[The breeding of bumblebees] Razvedenie shmelei v tseliakh opyleniya
krasnogo klevra. Moskva, Izd-vo Akademii nauk SSSR, 1954. 72 p.
[Microfilm] (MLRA 8:2)

1. President Vsesoyuznogo Entomologicheskogo obshchestva (for Pav-
lovskiy).
(Bumblebees)

VOVCHENKO, Ya.P.

Cleaning off hardened cement. Stomatolgia 35 no.3:59 My-Je 156.
(DENTAL MATERIALS)

ANIROV, Petr Nikolayevich [Anirov, P.M.]; VOVCHIK, A.F., otv.red.;
FELLER, M.D., red.; MALYAVKO, A.V., tekhnred.

[Socialism in the U.S.S.R. won a final and decisive victory;
aid to students of the decisions of the 21st Congress of the
CPSU] Sotsializm v SRSR zdobuv povnu i ostatochnu peremohu;
na dopomohu vyvchajuchym rishehnia XXI z'izdu KPRS. L'viv,
Vyd-vo L'vivs'koho univ., 1959. 42 p. (MIHA 13:2)
(Russia--Economic conditions) (Communism)

VOVCHUK, V.A.

Peculiarities of the course of bone tuberculosis in the aged.
Vest. khir. 76 no.11:88-91 '55. (MLA 9:4)

1. Iz khirurgicheskogo otdeleniya (zav.--Ye.G. Golikova) Stanislavskoy
oblastnoy klinicheskoy bol'nitsy i kafedry gosital'noy khirurgii
(zav.--professor S.A. Verkh ratskiy) Stanislavskogo meditsinskogo instituta.
(TUBERCULOSIS, OSTEOARTICULAR, in aged
peculiarities of develop.)
(AGED, dis.
tuberc., osteoarticular, peculiarities of develop.)

VOVIKOV, K.G.

Purification of the milk of lime by means of hydrocyclones. Sakh.-
prom. 37 no.7:61-62 J1 '63. (MIRA 16:7)

1. Gindeshtskiy sakharney zavod.
(Separators (Machines)) (Sugar manufacture)

VOVIN, R.Ya.

Role of affectivity in the origin and formation of some types of delirium and the changes in it during the process of treatment. Trudy Gos.nauch.-issl.inst.psikh. 27:307-314 '61. (MIRA 15:10)

1. Leningradskiy psikhonevrologicheskiy institut imeni V.N. Bekhtereva. Dir. - chlen-korrespondent Akademii pedagogicheskikh nauk RSFSR prof. V.N.Myasishcev. Pervaya psikhiatricheskaya klinika. Zav. - doktor med. nauk T.Ya.Khvilivitskiy.
(DELIRIUM)

VOVIN, R.Ya.; VOVINA, Ye.N.

Use of andaxin in a psychiatric clinic. Trudy Gos. nauch.-issl.
psikhonevr. inst. no.24:135-144 '61. (MIRA 15:5)

1. 1-oye psikhiatricheskoye otdeleniye i psikhonevrologicheskiy
dispanser Petrogradskogo rayona g. Leningrada.
(MEPROBAMATE)

VOVIN, R. Ya., Cand Med Sci -- (diss) "Role of affectivity in the origin and formation of several kinds of delirium. (Clinico-pathophysiological and experimental-therapeutic investigation)." Leningrad, 1960. 16 pp; (First Leningrad Medical Inst in Academician I. P. Pavlov); 300 copies; price not given; (KL, 52-60, 122)

VOVIN, R.Ya.; VOVINA, Ye.N.

Use of andaxin in a psychiatric clinic. Trudy Gos. nauch.-issl.
psikhonevr. inst. no.24:135-144 '61. (MIRA 15:5)

1. 1-oye psikhiatricheskoye otdeleniye i psikhonevrologicheskiy
dispanser Petrogradskogo rayona g. Leningrada.
(MEPROBAMATE)

VOVK, A.A., inzh.; SEMBRYAKOV, A.M., inzh.; CHEPTSOV, V.V., inzh. (Irkutsk).

Mechanized slag removal. Put' 1 put. khoz. no.1:29-30 Ja '95.
(Slag) (Conveying machinery) (MIRA 1:1)

VOVK, A.A., gornyy inzh.

Improving the quality of blasting materials for mines. Ugol'
Ukr. 3 no.12:43 D '59. (MIRA 13:4)
(Coal mines and mining--Explosives)

VOVK, A. A., Cand Tech Sci -- (diss) "Research into methods of sinking development shafts in soft formations as a result of hardening by the force of explosion and the opportunity of its utilization in mining practices." Kiev, 1960. 17 pp; (Ministry of Higher and Secondary Specialist Education Ukrainian SSR, Kiev Order of Lenin Polytechnic Inst); 160 copies; price not given; (KL, 25-60, 130)

VOVK, A.A., referent; MAYBORODA, I.S.

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no.12, 1959]. Gor.zhur.no.5:38 My '60. (MIRA 14:3)
(Sweden--Explosives) (Finland--Explosives)

TROFIMOV, V.P., gornyy inzh.; VOVK, A.A., gornyy inzh.

Coal breaking by blasting with water infusion into bore holes. Ugol'
Ukr. 4 no.10:44-45 O 160. (MIRA 13:10)
(Coal mines and mining) (Blasting)

VOVK, A.A.: MAYBORODA, I.S.

Coal mining in Great Britain (from "Colliery Guardian," nos. 5174,
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(Great Britain--Coal mines and mining)

IZRAYELIT, B.Z., dotsent; VINNIK, I.V., inzh.; KARASIK, I.B., kand.
tekhn.nauk; TROFIMOV, V.P., gornyy inzh.; VOVK, A.A., gornyy
inzh.; SHAMRAY, G.A.

Response to I.E.Detistov's article "Evaluating the efficiency
of explosives." Ugol' 35 no.3:58-61 Mr '60.
(MIRA 13:6)

1. Gosudarstvennyy nauchno-tekhnicheskiiy komitet USSR.
(for Trofimov and Vovk).
(Coal mines and mining--Explosives)
(Detistov, I.E.)

TROFIMOV, V.P., gornyy inzh.; VOVK, A.A., gornyy inzh.; CHERNYI, G.I.,
gornyy inzh.

Dictionary of the Ukrainian mining terminology ("Russian-Ukrainian
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Ugol' Ukr, 5 no.1:47 Ja '61. (MIRA 14:1)

(Mining engineering--Dictionaries)
(Russian language--Dictionaries--Ukrainian)

VOVK, A.A.

STARIKOV, N.A.; AKUTIN, kandidat tekhnicheskikh nauk; KITACH, G.M.;
VOVK, A.A., gornyy inzhener.

Experiments in the use of pyroxylin explosives in open pit mining.
Gor.zhur. no.12:21-23 D '56. (MLRA 10:1)

1. Deystvitel'nyy cheln Akademii nauk USSR (for Starikov). 2. Glavnyy
inzhener Yuzhnogo gorno-obogatitel'nogo kombinata (for Kitach).
(Nitroglycerin) (Strip mining)

VOVK, A.A., kand.tekhn.nauk; KAL'CHIK, G.S., inzh.

"Brief manual of the mine builder" by I.K. Krasovitskii. Reviewed
by A.A. Vovk, G.S. Kal'chik. Shakht.stroi. 6 no.11:31-32 W '62.
(MIRA 15:12)

(Coal mines and mining) (Krasovitskii, I.K.)

VQVK, Aleksey Anufriyevich; AFONINA, G.P., red.; STARODUB, T.A.,
tekhn. red.

[Blasting]Vzryvnik. Kiev, Gostekhzdat USSR, 1962. 214 p.
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(Blasting)

VOVK, A.A.

Practice of using the blasting method to sink exploratory shafts
in the overburden in the Kuznetsk Basin. Sbor.trud.Inst.gor.dela
AN URSR no.5:144-154 '58. (MIRA 15:5)
(Kuznetsk Basin--Shaft sinking) (Blasting)

ACC NR: AP6032395 (A) SOURCE CODE: UR/0198/66/002/009/0093/0098

AUTHOR: Vovk, A. A. (Kiev); Kravets, V. G. (Kiev)

ORG: none

TITLE: Research on the deformation of clay soil by the action of explosive energy

SOURCE: Prikladnaya mekhanika, v. 2, no. 9, 1966, 93-98

TOPIC TAGS: soil, soil behavior, detonation ground shock transmission, physical geology, *CLAY, DETONATION, SOIL PROPERTY*

ABSTRACT: The mechanism of cohesive-soil deformation during an explosive was studied by the method of radioactive logging. This study was complex due to the fact that soil, unlike uniform media, contains gas, liquid, and soil components, and its particles are subject to the forces of internal friction and cohesion. There has been a great difference observed in the behavior of soils with different density and moisture content to the impact charge. Thus, the compression of water-free soil primarily deforms its skeleton, i.e., by breaking up stable bonds and displacing its particles. In water-saturated soils, the water acts as a primary counterforce. In addition to these characteristics, the distance and depth of soil samples were kept in mind during the construction of dynamic diagrams using logging data. Orig. art. has: 6 figures and 13 formulas.

SUB CODE: 08, 19 / SUBM DAT:E 05Mar66/ ORIG REF: 006
Card 1/1

VOVK, A. A.

"Partial and Complete Restoration of the Penis and the Urethra with the Aid of Filatov's Stalk." (Dissertation for Degree of Candidate for Medical Sciences) Dnepropetrovsk State Medical Inst. Dnepropetrovsk, 1955

SO: M-1036 28 Mar 56

USSR / Pharmacology and Toxicology. Toxicology.

V-11

Abs Jour : Ref Zhur - Biol., No 16, 1958, No 75948

Author : Vovk, A. A.
Inst : Dnepropetrovsk Medical Institute.
Title : On the Problem of Snake Bites.

Orig Pub : Sb. nauchn. rabot Dnepropetr. med. in-t, 1956, 2, 33-34.

Abstract : 23 cases are reported of treatment of persons aged 4-20 years and over who had been bitten by vipers and copperheads. Treatment included excision of the site of the bite, of a circular novocain block (0.5% solution) of the extremity above edema, of a perirenal block on the side of the infection, of penicillin therapy, and the administration of cardiac agents. During sharply expressed edema and serious general condition, incisures of the skin and of the subcutaneous cellular tissue were conducted. In 6-20 days, the patients were dismissed from the clinic.

Card 1/1

Vovk, A.A.
USSR/General Problems of Pathology - Pathophysiology of the
Infectious Process

U.

Abs Jour : Ref Zhur - Biol., No 2, 1959, 8678

Author : Vovk, A.A.

Inst : Dnepropetrovsk Medical Institute

Title : The Problem of Spread of Infection Along the Lymphatics
in Acute Trauma. Report II. Clinical Observations.

Orig Pub : Sb. nauch. tr. Dnepropetr. med. in-ta, 1957, 3, 23-25

Abstract : In 19 out of 25 patients admitted for open trauma of the
extremities an enlargement of the regional lymph nodes
was noted as early as two to 12 hours after injury. In
10 patients, the same bacteria were found on lymph node
biopsy as in the wound. Similar results were also found
in two patients out of 6 who died 6-19 hours after the
trauma. The administration of penicillin into the lymph
nodes is indicated in injuries. -- K.P. Marku-

Card 1/1

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- 14 -

USSR/General Problems of Pathology - Pathophysiology of the U.
Infectious Process

Abs Jour : Ref Zhur * Biol., No 2, 1959, 8679

Author : Vovk, A.A., Totskaya, K.F.

Inst : Dnepropetrovsk Medical Institute

Title : Condition of the Lymphatics of the Lower Extremity in
an Acute Infected Wound According to the Data of Lympho-
graphy (Experimental Observations)

Orig Pub : Sb. nauchn. tr. Dnepropetr. med. in-ta, 1957, 3, 26-31

Abstract : In 45 live dogs superficial wounds or wounds in com-
pound fractures of the hind extremities were irrigated
with an emulsion of staphylo- and streptococcus, and
then the lymphatic vessels of the injured areas were
injected with 50% of collargol in a quantity of 3-4 cc.
The collargol was also injected into the soft tissues of

Card 1/2

USSR/General Problems of Pathology - Pathophysiology of the
Infectious Process

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Abs Jour : Ref Zhur - Biol., No 2, 1959, 8679

the foot. On X-rays taken 6 min. to 24 hours afterwards it was established that collargol spreads along the lymphatic vessels the more quickly the greater the injury and the more pronounced the inflammatory reaction. An increase in the number of accessory lymphatic vessels was noted as well as in the intensity of the coloration of the nodes and the depth of penetration of the collargol.
-- K.P. Markuze

Card 2/2

- 15 -

VGVK, A.A.; SHIGAYEV, A.M.

Repair of ties in the division. Put' i put. khoz. 9 no. 1825-21
'65 (MIRA 18:2)

1. Glavnyy inzh. sluzhby puti, Irkutsk, Vostochno-Sibirskoy
dorogi (for Vovk). 2. Starshiy master Irkutskoy dstantsii puti
Vostochno-Sibirskoy dorogi (for Shigayev).

VOVK, Aleksey Anufriyevich; CHERNYY, Geliy Ivanovich; NOVOZHILOV,
M.G., prof., doktor tekhn. nauk, retsenzent; FILATOVA, T.A.,
red.

[Mining mineral deposits by the combined method] Razrabotka
mestorozhdenii poleznykh iskopaemykh kombinirovannym sposobom.
Kiev, Naukova dumka, 1965. 189 p. (MIRA 18:3)

SHTEYNBUK, Vladimir L'vovich; VOYK, A.A., inzh., retsenzent;
AFONINA, G.P., red.izd-va; STARODUB, T.A., tekhn.red.

[Flameless blasting in coal mines] Besplamennoe vzryva-
nie na ugol'nykh shakhtakh. Kiev, Gostekhizdat USSR, 1963.
93 p. (MIRA 16:12)
(Blasting) (Coal mines and mining)